

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A micro-lens for use in an imager,
comprising:

a substrate positioned over a pixel cell, the substrate having a bottom
surface facing towards the pixel cell and an upper surface opposite the
bottom surface;

~~having an opening in the substrate~~ recessed from ~~an~~ the upper surface
of the substrate; and

lens material located within the opening of the substrate, said opening
serving as a mold for the lens material.
2. (Previously Presented) The micro-lens of claim 1, wherein the
opening has at least one arcuate portion.
3. (Previously Presented) The micro-lens of claim 1, wherein the
opening is shaped such that said lens material corrects for optical aberrations.
4. (Original) The micro-lens of claim 1, wherein the substrate
comprises silicon dioxide.
5. (Currently Amended) The micro-lens of claim 4, wherein ~~said
substrate is positioned over a pixel cell and~~ the opening is shaped such that

said lens material ~~is formed to~~ accounts for color dependent photon absorption differences of a photosensor of said pixel cell.

6. (Original) The micro-lens of claim 1, wherein the lens material exhibits a refractive index greater than that of the substrate.

7. (Original) The micro-lens of claim 1, wherein the lens material exhibits a refractive index less than the substrate.

8. (Currently Amended) A micro-lens, comprising:
a substrate positioned over a pixel cell, the substrate having a bottom surface facing towards the pixel cell and an upper surface opposite the bottom surface;

~~having~~ an opening in the substrate recessed from ~~an~~ the upper surface of the substrate, said substrate being formed of silicon dioxide; and

lens material located within the opening of the substrate, wherein the opening is shaped such ~~[[that-said]]~~ that said lens material corrects for optical aberrations.

9. (Previously Presented) The micro-lens of claim 8, wherein the opening is structured such that a focal point of the micro-lens is associated with a color of light.

10. (Original) The micro-lens of claim 8, wherein the lens material exhibits a refractive index greater than that of the substrate.

11. (Original) The micro-lens of claim 8, wherein the lens material exhibits a refractive index less than that of the substrate.

Claims 12-48. (Canceled).